

Release notes for ENDF/B Development n-031_Ga_069
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=3125, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=3125, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      185 TO      263
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=3125, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=3125, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      185
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3125, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      265
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      300
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      337
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      373
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      399
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 407

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 417

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 32 (0): Directory (b)

ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 32
SECTION 3/ 32 NOT IN DIRECTORY RECORD NUMBER 427

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 434

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 458

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 481

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 502

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 55
SECTION 3/ 55 NOT IN DIRECTORY RECORD NUMBER 522

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 56 (0): Directory (b)

- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 56 | |
| SECTION 3/ 56 NOT IN DIRECTORY | RECORD NUMBER 542 |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 57 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 57 | |
| SECTION 3/ 57 NOT IN DIRECTORY | RECORD NUMBER 561 |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 58 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 58 | |
| SECTION 3/ 58 NOT IN DIRECTORY | RECORD NUMBER 580 |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 59 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 59 | |
| SECTION 3/ 59 NOT IN DIRECTORY | RECORD NUMBER 598 |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 60 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 60 | |
| SECTION 3/ 60 NOT IN DIRECTORY | RECORD NUMBER 616 |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 61 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 61 | |
| SECTION 3/ 61 NOT IN DIRECTORY | RECORD NUMBER 633 |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 62 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 62 | |
| SECTION 3/ 62 NOT IN DIRECTORY | RECORD NUMBER 649 |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 63 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 63 | |
| SECTION 3/ 63 NOT IN DIRECTORY | RECORD NUMBER 665 |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 64 (0): Directory (b)

- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 64 | |
| | SECTION 3/ 64 NOT IN DIRECTORY | RECORD NUMBER 681 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 65 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 65 | |
| | SECTION 3/ 65 NOT IN DIRECTORY | RECORD NUMBER 696 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 66 | |
| | SECTION 3/ 66 NOT IN DIRECTORY | RECORD NUMBER 711 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 67 | |
| | SECTION 3/ 67 NOT IN DIRECTORY | RECORD NUMBER 725 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 68 | |
| | SECTION 3/ 68 NOT IN DIRECTORY | RECORD NUMBER 739 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 69 | |
| | SECTION 3/ 69 NOT IN DIRECTORY | RECORD NUMBER 753 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 70 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 70 | |
| | SECTION 3/ 70 NOT IN DIRECTORY | RECORD NUMBER 766 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 71 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 71 | |
| | SECTION 3/ 71 NOT IN DIRECTORY | RECORD NUMBER 779 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 72 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 72 | RECORD NUMBER | 792 |
| SECTION 3/ 72 NOT IN DIRECTORY | | |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 73 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 73 | RECORD NUMBER | 804 |
| SECTION 3/ 73 NOT IN DIRECTORY | | |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 74 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 74 | RECORD NUMBER | 816 |
| SECTION 3/ 74 NOT IN DIRECTORY | | |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 75 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 75 | RECORD NUMBER | 828 |
| SECTION 3/ 75 NOT IN DIRECTORY | | |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT= 91 | RECORD NUMBER | 839 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT=102 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT=102 | RECORD NUMBER | 850 |
| SECTION 3/102 NOT IN DIRECTORY | | |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT=103 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT=103 | RECORD NUMBER | 876 |
| SECTION 3/103 NOT IN DIRECTORY | | |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT=104 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT=104 | RECORD NUMBER | 889 |
| SECTION 3/104 NOT IN DIRECTORY | | |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT=105 (0): Directory (b)

- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT=105 | |
| SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER 899 |
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT=106 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT=106 | |
| SECTION 3/106 NOT IN DIRECTORY | RECORD NUMBER 908 |
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT=107 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT=107 | |
| SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER 917 |
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 3, MT=111 (0): Directory (b)
- | | |
|---|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 3, MT=111 | |
| SECTION 3/111 NOT IN DIRECTORY | RECORD NUMBER 931 |
43. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 2 (0): Directory (b)
- | | |
|--|-------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 2 | |
| SECTION 4/ 2 NOT IN DIRECTORY | RECORD NUMBER 940 |
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 16 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 16 | |
| SECTION 4/ 16 NOT IN DIRECTORY | RECORD NUMBER 1147 |
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 22 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 22 | |
| SECTION 4/ 22 NOT IN DIRECTORY | RECORD NUMBER 1158 |
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 28 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 28 | |
| SECTION 4/ 28 NOT IN DIRECTORY | RECORD NUMBER 1169 |
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 32 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 32 | RECORD NUMBER | 1180 |
| SECTION 4/ 32 NOT IN DIRECTORY | | |
48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 51 | RECORD NUMBER | 1191 |
| SECTION 4/ 51 NOT IN DIRECTORY | | |
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 52 | RECORD NUMBER | 1490 |
| SECTION 4/ 52 NOT IN DIRECTORY | | |
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 53 | RECORD NUMBER | 1787 |
| SECTION 4/ 53 NOT IN DIRECTORY | | |
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 54 | RECORD NUMBER | 2080 |
| SECTION 4/ 54 NOT IN DIRECTORY | | |
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 55 | RECORD NUMBER | 2365 |
| SECTION 4/ 55 NOT IN DIRECTORY | | |
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 56 | RECORD NUMBER | 2646 |
| SECTION 4/ 56 NOT IN DIRECTORY | | |
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 57 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 57 | RECORD NUMBER | 2930 |
| SECTION 4/ 57 NOT IN DIRECTORY | | |
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 58 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 58 | RECORD NUMBER | 3206 |
| SECTION 4/ 58 NOT IN DIRECTORY | | |
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 59 | RECORD NUMBER | 3483 |
| SECTION 4/ 59 NOT IN DIRECTORY | | |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 60 | RECORD NUMBER | 3761 |
| SECTION 4/ 60 NOT IN DIRECTORY | | |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 61 | RECORD NUMBER | 4030 |
| SECTION 4/ 61 NOT IN DIRECTORY | | |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 62 | RECORD NUMBER | 4047 |
| SECTION 4/ 62 NOT IN DIRECTORY | | |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 63 | RECORD NUMBER | 4064 |
| SECTION 4/ 63 NOT IN DIRECTORY | | |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 64 | RECORD NUMBER | 4081 |
| SECTION 4/ 64 NOT IN DIRECTORY | | |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 65 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 65 | RECORD NUMBER | 4098 |
| SECTION 4/ 65 NOT IN DIRECTORY | | |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 66 (0): Directory (b)

- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 66 | |
| SECTION 4/ 66 NOT IN DIRECTORY | RECORD NUMBER 4115 |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 67 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 67 | |
| SECTION 4/ 67 NOT IN DIRECTORY | RECORD NUMBER 4132 |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 68 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 68 | |
| SECTION 4/ 68 NOT IN DIRECTORY | RECORD NUMBER 4149 |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 69 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 69 | |
| SECTION 4/ 69 NOT IN DIRECTORY | RECORD NUMBER 4166 |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 70 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 70 | |
| SECTION 4/ 70 NOT IN DIRECTORY | RECORD NUMBER 4183 |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 71 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 71 | |
| SECTION 4/ 71 NOT IN DIRECTORY | RECORD NUMBER 4200 |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 72 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 72 | |
| SECTION 4/ 72 NOT IN DIRECTORY | RECORD NUMBER 4217 |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 73 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 73 | |
| SECTION 4/ 73 NOT IN DIRECTORY | RECORD NUMBER 4234 |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 74 (0): Directory (b)

- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 74 | |
| SECTION 4/ 74 NOT IN DIRECTORY | RECORD NUMBER 4251 |
72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 75 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 75 | |
| SECTION 4/ 75 NOT IN DIRECTORY | RECORD NUMBER 4268 |
73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 4, MT= 91 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 4, MT= 91 | |
| SECTION 4/ 91 NOT IN DIRECTORY | RECORD NUMBER 4285 |
74. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 5, MT= 16 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 5, MT= 16 | |
| SECTION 5/ 16 NOT IN DIRECTORY | RECORD NUMBER 4315 |
75. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 5, MT= 22 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 5, MT= 22 | |
| SECTION 5/ 22 NOT IN DIRECTORY | RECORD NUMBER 4504 |
76. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 5, MT= 28 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 5, MT= 28 | |
| SECTION 5/ 28 NOT IN DIRECTORY | RECORD NUMBER 4775 |
77. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 5, MT= 32 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 5, MT= 32 | |
| SECTION 5/ 32 NOT IN DIRECTORY | RECORD NUMBER 5050 |
78. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=3125, MF= 5, MT= 91 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=3125, MF= 5, MT= 91 | |
| SECTION 5/ 91 NOT IN DIRECTORY | RECORD NUMBER 5133 |

• recent Warnings:

1. Statistical weight of certain L values were incorrect
0: RRR goof (a)

Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)

```
=====
Retrieval Criteria----- MAT
File 2 Mimimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [172 more lines]
```

• fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved (Error # 1): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 0.0 and S = 0.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.0 and S = 0.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.0 and S = 1.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.0 and S = 1.0 for "capture"
```

2. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.15%
```

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: (z,n) (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.12%
```

• fudge-4.0 Errors:

1. The spin statistical weights are off, indicating missing channels
resonances / resolved / MultiLevel_BreitWigner (Error # 0): badSpinStatisticalWeights

```
WARNING: The spin statcal weights for L=1 sums to 2.0, but should sum to 3.0. You have too few channels for re
```

2. Calculated and tabulated Q values disagree.
reaction label 27: n[multiplicity:'2'] + Ga68 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -10190650.62576294 eV vs -1.03097e7 eV!
```

3. Calculated and tabulated Q values disagree.
reaction label 28: n + H1 + Zn68 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -6487203.860221863 eV vs -6607910. eV!
```

4. Calculated and tabulated Q values disagree.
reaction label 29: n + H2 + Zn67 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -14460734.01338959 eV vs -1.45826e7 eV!
```

5. Calculated and tabulated Q values disagree.
reaction label 30: Ga70 + gamma (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: 7775953.904495239 eV vs 7654390. eV!
```

6. Calculated and tabulated Q values disagree.
reaction label 31: n + He4 + Cu65 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4366707.105964661 eV vs -4483130. eV!

7. Calculated and tabulated Q values disagree.
reaction label 32: H1[multiplicity:'2'] + Cu68 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -10145042.49753571 eV vs -1.04098e7 eV!

8. Calculated and tabulated Q values disagree.
reaction label 33: H1 + Zn69-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -5133.574676513672 eV vs -124330. eV!

9. Calculated and tabulated Q values disagree.
reaction label 34: H2 + Zn68-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -4262637.759292603 eV vs -4.3833e6 eV!

10. Calculated and tabulated Q values disagree.
reaction label 35: H3 + Zn67-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8203501.072769165 eV vs -8.325e6 eV!

11. Calculated and tabulated Q values disagree.
reaction label 36: He3 + Cu67-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8746571.854904175 eV vs -8.881e6 eV!

12. Calculated and tabulated Q values disagree.
reaction label 37: He4 + Cu66-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 2699222.716758728 eV vs 2583550. eV!

• njoy2012 Warnings:

1. Evaluation has no unresolved resonance parameters given
unresr...calculation of unresolved resonance cross sections (0): No URR

---message from unresr---mat 3125 has no unresolved parameters
copy as is to nout

2. Evaluation has no unresolved resonance parameters given
purrr...probabalistic unresolved calculation (0): No URR

---message from purrr---mat 3125 has no unresolved parameters
copy as is to nout

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 32
only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided